

We claim:

1. A method for radio transmission of messages in an alarm signaling system with a central station and a plurality of bidirectional and unidirectional subscribers, in which the central station and the bidirectional subscribers each feature a send and receive unit while the unidirectional subscribers merely possess a send unit and whereby the unidirectional subscribers located outside the radio coverage area of the destination of a message of the unidirectional subscriber, which as a rule is the central station, attempt to send messages via one of the bidirectional subscribers to the destination, comprising the steps of:

- receiving a message sent by a unidirectional subscriber by all bidirectional subscribers within its radio coverage area,

- waiting by each bidirectional subscriber that has received the message for a period of time individually assigned to the subscriber to send a confirmation and/or to forward the message to the destination or to the central station,

- during the wait time, switching to receive by each subscriber in order to monitor a radio channel to see if another subscriber with a shorter wait time has already confirmed the message and/or forwarded it to the central station, and

- as soon as a subscriber receives a confirmation of the message or the fact that it has been forwarded, suppressing its own confirmation or forwarding of the message.

2. The method in accordance with Claim 1, wherein, all bidirectional subscribers first wait to see if the central station has received and confirmed the message before they confirm or forward the message in their next available time slot.

3. The method in accordance with Claim 1, wherein, the order of the wait times and thereby the wait times of the bidirectional subscribers is defined by their address within the radio cell.

4. The method in accordance with Claim 2, wherein, the order of the wait times and thereby the wait times of the bidirectional subscribers is defined by their address within the radio cell.

5. The method in accordance with Claim 1, wherein, in the central station the identification of the unidirectional subscriber is checked and in accordance with this check, the message is either accepted or rejected.

6. The method in accordance with Claim 4, wherein, in the central station the identification of the unidirectional subscriber is checked and in accordance with this check, the message is either accepted or rejected.

7. A method for radio transmission of messages in an alarm signaling system with a central station and a plurality of bidirectional and unidirectional subscribers, comprising the steps of:

- receiving a message sent by a unidirectional subscriber by all bidirectional subscribers within its radio coverage area,

- waiting for an individually assigned period of time by each bidirectional subscriber that has received the message to send a confirmation and/or to forward the message to the destination or to the central station, wherein during the wait time, each subscriber switches to a receive mode in order to monitor a radio channel,

- monitoring whether another subscriber with a shorter wait time has already confirmed the message and/or forwarded it to the central station, and

- as soon as a subscriber receives a confirmation of the message or the fact that it has been forwarded, suppressing its own confirmation or forwarding of the message.

8. The method in accordance with Claim 7, wherein, the order of the wait times and thereby the wait times of the bidirectional subscribers is defined by their address within the radio cell.

9. The method in accordance with Claim 8, wherein, the order of the wait times and thereby the wait times of the bidirectional subscribers is defined by their address within the radio cell.

10. The method in accordance with Claim 7, wherein, in the central station the identification of the unidirectional subscriber is checked and in accordance with this check, the message is either accepted or rejected.

11. The method in accordance with Claim 9, wherein, in the central station the identification of the unidirectional subscriber is checked and in accordance with this check, the message is either accepted or rejected.